

WHAT IS CLAIMED IS:

1. A bracket assembly for mounting on a spoke having at least one flat portion, comprising:

a housing having a flat spoke-receiving recess with non-circular cross section and at least one detent extending from said housing into said flat spoke-receiving recess to secure the at least one flat portion of the spoke within said spoke-receiving recess via a snap-fit.

2. A bracket assembly according to claim 1, wherein said housing includes a body portion with a cavity adapted to receive a magnet within said cavity.

3. A bracket assembly according to claim 1, wherein said housing further includes a second detent that is longitudinally spaced from said one detent along said spoke-receiving recess.

4. A bracket assembly according to claim 3, wherein said housing further includes third and fourth detents with said third detent being located opposite said one detent and said fourth detent being located opposite second detent.

5. A bracket assembly according to claim 2, wherein said housing includes a first retaining portion extending from said body portion, said first retaining portion forms at least part of said spoke-receiving recess.

6. A bracket assembly according to claim 5, wherein said housing includes a second retaining portion extending from said body portion, said second retaining portion being aligned with said first retaining portion to form at least part of said spoke-receiving recess.

7. A bracket assembly according to claim 6, wherein said spoke-receiving recess has a length of approximately ten millimeters to approximately thirty millimeters.

5 8. A bracket assembly according to claim 6, wherein each of said retaining portions has a pair of side walls extending from a bottom wall to form said spoke-receiving recess.

10 9. A bracket assembly according to claim 8, wherein each of said bottom walls has an aperture.

10. A bracket assembly according to claim 1, wherein said housing is integrally formed as a one-piece, unitary member.

15 11. A bracket assembly according to claim 1, wherein said housing is constructed of magnetic material.

20 12. A bracket assembly according to claim 1, wherein said spoke-receiving recess has a pair of side walls extending from a bottom wall to form an opening to receive the at least one flat portion of the spoke therein.

25 13. A bracket assembly according to claim 12, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls, said side walls being spaced apart by a first predetermined distance at said at least one detent, and portions of said side walls located between said bottom wall and said retaining surface being spaced apart by a second predetermined distance, said first predetermined distance being smaller than said second predetermined distance.

14. A bracket assembly according to claim 13, wherein
said at least one detent has a retaining surface ~~that~~ is opposed to said bottom
wall and spaced from said bottom wall by a third predetermined distance, said third
predetermined distance being smaller than said second predetermined distance.

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15. A bracket assembly according to claim 12, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, portions of said side walls located between said
bottom wall and said retaining surface being spaced apart by a first predetermined
10 distance, said retaining surface being spaced from said bottom wall by a second
predetermined distance, said first predetermined distance being greater than said
second predetermined distance.

16. A magnetic device for mounting on a spoke having at least one flat
portion, comprising:
a housing having a spoke-receiving recess with non-circular cross section and
at least one detent extending from said housing into said spoke-receiving recess to
secure a flat spoke within said spoke-receiving recess via a snap-fit; and
a magnetic material fixedly coupled to said housing.

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17. A magnetic device according to claim 16, wherein
said housing includes a body portion with a cavity, and said magnetic material
is a magnet that is fixedly secured within said cavity.

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18. A magnetic device according to claim 16, wherein
said housing further includes a second detent that is longitudinally spaced
from said one detent along said spoke-receiving recess.

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19. A magnetic device according to claim 18, wherein
said housing further includes third and fourth detents with said third detent
being located opposite said one detent and said fourth detent being located opposite
second detent.

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20. A magnetic device according to claim 17, wherein
said housing includes a first retaining portion extending from said body
portion, said first retaining portion forms at least part of said spoke-receiving recess.

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21. A magnetic device according to claim 20, wherein
said housing includes a second retaining portion extending from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

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22. A magnetic device according to claim 21, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

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23. A magnetic device according to claim 21, wherein
each of said retaining portions has a bottom wall and a pair of side walls
extending from said bottom wall to form said spoke-receiving recess.

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24. A magnetic device according to claim 23, wherein
each of said bottom walls has an aperture.

25. A magnetic device according to claim 16, wherein
said housing is integrally formed as a one-piece, unitary member.

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26. A magnetic device according to claim 16, wherein
said housing is constructed of magnetic material.

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27. A magnetic device according to claim 16, wherein
said spoke-receiving recess is formed by a pair of side walls extending from a
bottom wall to form an opening between said side walls to insert the spoke into said
spoke-receiving recess.

28. A magnetic device according to claim 27, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, said side walls being spaced apart by a first
predetermined distance at said at least one detent, and portions of said side walls
5 located between said bottom wall and said retaining surface being spaced apart by a
second predetermined distance, said first predetermined distance being smaller than
said second predetermined distance.

29. A magnetic device according to claim 28, wherein
10 said at least one detent has an retaining surface that is opposed to said bottom
wall and spaced from said bottom wall by a third predetermined distance, said third
predetermined distance being smaller than said second predetermined distance.

30. A magnetic device according to claim 27, wherein
15 said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, portions of said side walls located between said
bottom wall and said retaining surface being spaced apart by a first predetermined
distance, said retaining surface being spaced from said bottom wall by a second
predetermined distance, said first predetermined distance being greater than said
20 second predetermined distance.

31. A monitoring device for a bicycle, comprising:
a sensing device; adapted to be coupled to a portion of the bicycle that is
adjacent a wheel of the bicycle;
25 a display unit adapted to be mounted on handlebars of the bicycle; and
a magnetic device adapted to be mounted on a spoke having a flat portion, said
magnetic device including a housing and magnetic material fixedly coupled to said
housing,
said housing having a spoke-receiving recess with non-circular cross section
30 and at least one detent extending from said housing into said spoke-receiving recess to
secure a flat spoke within said spoke-receiving recess via a snap-fit.

32. A monitoring device according to claim 31, wherein
said housing includes a body portion with a cavity, and said magnetic material
is a magnet that is fixedly secured within said cavity.

5 33. A monitoring device according to claim 31, wherein
said housing further includes a second detent that is longitudinally spaced
from said one detent along said spoke-receiving recess.

10 34. A monitoring device according to claim 32, wherein
said housing further includes third and fourth detents with said third detent
being located opposite said one detent and said fourth detent being located opposite
second detent.

15 35. A monitoring device according to claim 32, wherein
said housing includes a first retaining portion extending from said body
portion, said first retaining portion forms at least part of said spoke-receiving recess.

20 36. A monitoring device according to claim 35, wherein
said housing includes a second retaining portion extending from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

25 37. A monitoring device according to claim 36, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

30 38. A monitoring device according to claim 36, wherein
each of said retaining portions has a pair of side walls extending from a
bottom wall to form said spoke-receiving recess.

39. A monitoring device according to claim 38, wherein
each of said bottom walls has an aperture.

40. A monitoring device according to claim 31, wherein
said housing is integrally formed as a one-piece, unitary member.

5 41. A monitoring device according to claim 31, wherein
said housing is constructed of said magnetic material.

42. A monitoring device according to claim 31, wherein
said spoke-receiving recess has a pair of side walls extending from a bottom
10 wall to form an opening to receive the at least one flat portion of the spoke therein.

43. A monitoring device according to claim 42, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, said side walls being spaced apart by a first
15 predetermined distance at said at least one detent, and portions of said side walls
located between said bottom wall and said retaining surface being spaced apart by a
second predetermined distance, said first predetermined distance being smaller than
said second predetermined distance.

20 44. A monitoring device according to claim 43, wherein
said at least one detent has a retaining surface that is opposed to said bottom
wall and spaced from said bottom wall by a third predetermined distance, said third
predetermined distance being smaller than said second predetermined distance.

25 45. A monitoring device according to claim 42, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, portions of said side walls located between said
bottom wall and said retaining surface being spaced apart by a first predetermined
distance, said retaining surface being spaced from said bottom wall by a second
30 predetermined distance, said first predetermined distance being greater than said
second predetermined distance.

46. A monitoring device for mounting on a spoke having at least one flat portion, comprising:

a housing having a spoke-receiving recess with a pair of opposed side walls spaced apart by a first predetermined distance and defining a non-circular cross section to receive the at least one flat portion of the spoke therebetween, said side walls being constructed of an elastic material to elastically retain the at least one flat portion of the spoke therebetween, said first predetermined distance being slightly smaller than a predetermined width of the flat portion of the spoke to elastically deform said side walls.

47. A bracket assembly according to claim 46, wherein said housing further includes a body portion with a cavity adapted to receive a magnet within said cavity.

48. A bracket assembly according to claim 46, wherein one of said side walls of said housing further includes a first detent extending into said spoke-receiving recess.

49. A bracket assembly according to claim 48, wherein said housing further includes a second detent that is longitudinally spaced from said one detent along said spoke-receiving recess.

50. A bracket assembly according to claim 49, wherein said housing further including third and fourth detents with said third detent being located opposite said one detent and said fourth detent being located opposite second detent.

51. A bracket assembly according to claim 46, wherein said housing includes a first retaining portion extending from said body portion, said first retaining portion forms at least part of said spoke-receiving recess.

52. A bracket assembly according to claim 51, wherein
said housing includes a second retaining portion ~~extending~~ from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

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53. A bracket assembly according to claim 52, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

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54. A bracket assembly according to claim 52, wherein
each of said retaining portions has a bottom wall ~~located~~ between said side
walls, each of said bottom walls having an aperture.

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55. A bracket assembly according to claim 46, wherein
said housing is integrally formed as a one-piece, unitary member.

56. A bracket assembly according to claim 46, wherein
said housing is constructed of magnetic material.

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57. A bracket assembly according to claim 48, wherein
said at least one detent has a retaining surface ~~that is~~ opposed to a bottom wall
located between said side walls, said side walls being spaced apart by a first
predetermined distance at said at least one detent, and portions of said side walls
located between said bottom wall and said retaining surface being spaced apart by a
25 second predetermined distance, said first predetermined distance being smaller than
said second predetermined distance.

58. A bracket assembly according to claim 57, wherein
said at least one detent has a retaining surface ~~that is~~ opposed to a bottom wall
30 and spaced from said bottom wall by a third predetermined distance, said third
predetermined distance being smaller than said second predetermined distance.

59. A bracket assembly according to claim 48, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, portions of said side walls located between said
bottom wall and said retaining surface being spaced apart by a first predetermined
5 distance, said retaining surface being spaced from said bottom wall by a second
predetermined distance, said first predetermined distance being greater than said
second predetermined distance.

60. A magnetic device for mounting on a spoke having at least one flat
portion, comprising:

a housing having a spoke-receiving recess with a pair of opposed side walls
spaced apart by a first predetermined distance and defining a non-circular cross
section to receive the at least one flat portion of the spoke therebetween, said side
walls being constructed of an elastic material to elastically retain the at least one flat
15 portion of the spoke therebetween, said first predetermined distance being slightly
smaller than a predetermined width of the flat portion of the spoke to elastically
deform said side walls; and

a magnetic material fixedly coupled to said housing.

61. A magnetic device according to claim 60, wherein
said housing further includes a body portion with a cavity adapted to receive a
magnet within said cavity.

62. A magnetic device according to claim 60, wherein
25 one of said side walls of said housing further includes a first detent extending
into said spoke-receiving recess.

63. A magnetic device according to claim 62, wherein
said housing further includes a second detent that is longitudinally spaced
30 from said one detent along said spoke-receiving recess.

64. A magnetic device according to claim 63, wherein
said housing further including third and fourth detents with said third detent
being located opposite said one detent and said fourth detent being located opposite
second detent.

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65. A magnetic device according to claim 60, wherein
said housing includes a first retaining portion extending from said body
portion, said first retaining portion forms at least part of said spoke-receiving recess.

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66. A magnetic device according to claim 65, wherein
said housing includes a second retaining portion extending from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

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67. A magnetic device according to claim 66, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

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68. A magnetic device according to claim 66, wherein
each of said retaining portions has a bottom wall located between said side
walls, each of said bottom walls having an aperture.

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69. A magnetic device according to claim 60, wherein
said housing is integrally formed as a one-piece, unitary member.

70. A magnetic device according to claim 60, wherein
said housing is constructed of magnetic material.

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71. A magnetic device according to claim 62, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, said side walls being spaced apart by a first
predetermined distance at said at least one detent, and portions of said side walls

located between said bottom wall and said retaining surface being spaced apart by a second predetermined distance, said first predetermined distance being smaller than said second predetermined distance.

5 72. A magnetic device according to claim 71, wherein
 said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls and spaced from said bottom wall by a third
predetermined distance, said third predetermined distance being smaller than said
second predetermined distance.

73. A magnetic device according to claim 60, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls, portions of said side walls located between said bottom wall and said retaining surface being spaced apart by a first predetermined distance, said retaining surface being spaced from said bottom wall by a second predetermined distance, said first predetermined distance being greater than said second predetermined distance.

74. A monitoring device for a bicycle, comprising:
a sensing device; adapted to be coupled to a portion of the bicycle that is adjacent a wheel of the bicycle;
a display unit adapted to be mounted on handlebars of the bicycle; and
a magnetic device adapted to be mounted on wheel spokes having a flat portion, said magnetic device including a housing and magnetic material fixedly coupled to said housing,
said housing having a spoke-receiving recess with a pair of opposed side walls spaced apart by a first predetermined distance and defining a non-circular cross section to receive the at least one flat portion of the spoke therebetween, said side walls being constructed of an elastic material to elastically retain the at least one flat portion of the spoke therebetween, said first predetermined distance being slightly smaller than a predetermined width of the flat portion of the spoke to elastically deform said side walls.

75. A magnetic device according to claim 74, wherein
said housing further includes a body portion with a cavity adapted to receive a
magnet within said cavity.

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76. A monitoring device according to claim 74, wherein
one of said side walls of said housing further includes a first detent extending
into said spoke-receiving recess.

10 77. A monitoring device according to claim 76, wherein
said housing further includes a second detent that is longitudinally spaced
from said one detent along said spoke-receiving recess.

15 78. A monitoring device according to claim 77, wherein
said housing further including third and fourth detents with said third detent
being located opposite said one detent and said fourth detent being located opposite
second detent.

20 79. A monitoring device according to claim 74, wherein
said housing includes a first retaining portion extending from said body
portion, said first retaining portion forms at least part of said spoke-receiving recess.

25 80. A monitoring device according to claim 79, wherein
said housing includes a second retaining portion extending from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

30 81. A monitoring device according to claim 80, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

82. A monitoring device according to claim 80, wherein each of said retaining portions has a bottom wall located between said side walls, each of said bottom walls having an aperture.

5 83. A monitoring device according to claim 74, wherein said housing is integrally formed as a one-piece, unitary member.

84. A monitoring device according to claim 74, wherein said housing is constructed of magnetic material.

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85. A monitoring device according to claim 76, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls, said side walls being spaced apart by a first predetermined distance at said at least one detent, and portions of said side walls located between said bottom wall and said retaining surface being spaced apart by a second predetermined distance, said first predetermined distance being smaller than said second predetermined distance.

15 86. A monitoring device according to claim 85, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls and spaced from said bottom wall by a third predetermined distance, said third predetermined distance being smaller than said second predetermined distance.

20 87. A monitoring device according to claim 74, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls, portions of said side walls located between said bottom wall and said retaining surface being spaced apart by a first predetermined distance, said retaining surface being spaced from said bottom wall by a second predetermined distance, said first predetermined distance being greater than said second predetermined distance.

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88. A bracket assembly for mounting on a spoke having at least one flat portion, comprising:

a housing having a spoke-receiving recess with a pair of opposed side walls spaced apart by a first predetermined distance to retain the spoke therebetween, and a projection extending from said spoke-receiving recess to engage the concavity of the spoke within said spoke-receiving recess.

89. A bracket assembly according to claim 88, wherein said housing further includes a body portion with a cavity adapted to receive a magnet within said cavity.

90. A bracket assembly according to claim 88, wherein one of said side walls of said housing further includes a first detent extending into said spoke-receiving recess.

91. A bracket assembly according to claim 90, wherein said housing further includes a second detent that is longitudinally spaced from said one detent along said spoke-receiving recess.

92. A bracket assembly according to claim 91, wherein said housing further including third and fourth detents with said third detent being located opposite said one detent and said fourth detent being located opposite second detent.

93. A bracket assembly according to claim 88, wherein said housing includes a first retaining portion extending from said body portion, said first retaining portion forms at least part of said spoke-receiving recess.

94. A bracket assembly according to claim 93, wherein said housing includes a second retaining portion extending from said body portion, said second retaining portion being aligned with said first retaining portion to form at least part of said spoke-receiving recess.

95. A bracket assembly according to claim 94, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

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96. A bracket assembly according to claim 94, wherein
each of said retaining portions has a bottom wall located between said side
walls, each of said bottom walls having an aperture.

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97. A bracket assembly according to claim 88, wherein
said housing is integrally formed as a one-piece, unitary member.

98. A bracket assembly according to claim 88, wherein
said housing is constructed of magnetic material.

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99. A bracket assembly according to claim 90, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, said side walls being spaced apart by a first
predetermined distance at said at least one detent, and portions of said side walls
located between said bottom wall and said retaining surface being spaced apart by a
second predetermined distance, said first predetermined distance being smaller than
said second predetermined distance.

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100. A bracket assembly according to claim 99, wherein
said at least one detent has a retaining surface ~~that~~ is opposed to a bottom wall
and spaced from said bottom wall by a third predetermined distance, said third
predetermined distance being smaller than said second predetermined distance.

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101. A bracket assembly according to claim 90, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, portions of said side walls located between said
bottom wall and said retaining surface being spaced apart by a first predetermined

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distance, said retaining surface being spaced from said bottom wall by a second predetermined distance, said first predetermined distance being greater than said second predetermined distance.

5 102. A bracket assembly according to claim 90, wherein
said projection is located on a bottom wall between said side walls.

103. A magnetic device for mounting on a spoke with a concavity,
comprising:

10 a housing having a spoke-receiving recess with a pair of opposed side walls
spaced apart by a first predetermined distance to retain the spoke therebetween, and a
projection extending from said spoke-receiving recess to engage the concavity of the
spoke within said spoke-receiving recess; and
a magnetic material fixedly coupled to said housing.

15 104. A magnetic device according to claim 103, wherein
said housing further includes a body portion with a cavity adapted to receive a
magnet within said cavity.

20 105. A magnetic device according to claim 103, wherein
one of said side walls of said housing further includes a first detent extending
into said spoke-receiving recess.

25 106. A magnetic device according to claim 105, wherein
said housing further includes a second detent that is longitudinally spaced
from said one detent along said spoke-receiving recess.

30 107. A magnetic device according to claim 106, wherein
said housing further including third and fourth detents with said third detent
being located opposite said one detent and said fourth detent being located opposite
second detent.

108. A magnetic device according to claim 103, wherein
said housing includes a first retaining portion extending from said body
portion, said first retaining portion forms at least part of said spoke-receiving recess.

5 109. A magnetic device according to claim 108, wherein
said housing includes a second retaining portion extending from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

10 110. A magnetic device according to claim 109, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

15 111. A magnetic device according to claim 109, wherein
each of said retaining portions has a bottom wall located between said side
walls, each of said bottom walls having an aperture.

20 112. A magnetic device according to claim 103, wherein
said housing is integrally formed as a one-piece, unitary member.

113. A magnetic device according to claim 103, wherein
said housing is constructed of magnetic material.

25 114. A magnetic device according to claim 105, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, said side walls being spaced apart by a first
predetermined distance at said at least one detent, and portions of said side walls
located between said bottom wall and said retaining surface being spaced apart by a
second predetermined distance, said first predetermined distance being smaller than
30 said second predetermined distance.

115. A magnetic device according to claim 105, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls and spaced from said bottom wall by a third
predetermined distance, said third predetermined distance being smaller than said
5 second predetermined distance.

116. A magnetic device according to claim 105, wherein
said at least one detent has a retaining surface that is opposed to a bottom wall
located between said side walls, portions of said side walls located between said
10 bottom wall and said retaining surface being spaced apart by a first predetermined
distance, said retaining surface being spaced from said bottom wall by a second
predetermined distance, said first predetermined distance being greater than said
second predetermined distance.

117. A magnetic device according to claim 103, wherein
said projection is located on a bottom wall between said side walls.

118. A monitoring device for a bicycle, comprising:
a sensing device; adapted to be coupled to a portion of the bicycle that is
20 adjacent a wheel of the bicycle;
a display unit adapted to be mounted on handlebars of the bicycle; and
a magnetic device adapted to be mounted on wheel spokes having a flat
portion, said magnetic device including a housing and magnetic material fixedly
coupled to said housing,

25 said housing having a spoke-receiving recess with a pair of opposed side walls
spaced apart by a first predetermined distance to retain the spoke therebetween, and a
projection extending from said spoke-receiving recess to engage the concavity of the
spoke within said spoke-receiving recess.

119. A monitoring device according to claim 118, wherein
said housing further includes a body portion with a cavity adapted to receive a
magnet within said cavity.

5 120. A monitoring device according to claim 118, wherein
one of said side walls of said housing further includes a first detent extending
into said spoke-receiving recess.

10 121. A monitoring device according to claim 120, wherein
said housing further includes a second detent that is longitudinally spaced
from said one detent along said spoke-receiving recess.

15 122. A monitoring device according to claim 121, wherein
said housing further including third and fourth detents with said third detent
being located opposite said one detent and said fourth detent being located opposite
second detent.

20 123. A monitoring device according to claim 118, wherein
said housing includes a first retaining portion extending from said body
portion, said first retaining portion forms at least part of said spoke-receiving recess.

25 124. A monitoring device according to claim 123, wherein
said housing includes a second retaining portion extending from said body
portion, said second retaining portion being aligned with said first retaining portion to
form at least part of said spoke-receiving recess.

30 125. A monitoring device according to claim 124, wherein
said spoke-receiving recess has a length of approximately ten millimeters to
approximately thirty millimeters.

126. A monitoring device according to claim 124, wherein each of said retaining portions has a bottom wall located between said side walls, each of said bottom walls having an aperture.

5 127. A monitoring device according to claim 118, wherein said housing is integrally formed as a one-piece, unitary member.

128. A monitoring device according to claim 118, wherein said housing is constructed of magnetic material.

10 129. A monitoring device according to claim 120, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls, said side walls being spaced apart by a first predetermined distance at said at least one detent, and portions of said side walls located between said bottom wall and said retaining surface being spaced apart by a second predetermined distance, said first predetermined distance being smaller than said second predetermined distance.

15 130. A monitoring device according to claim 129, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls and spaced from said bottom wall by a third predetermined distance, said third predetermined distance being smaller than said second predetermined distance.

20 131. A monitoring device according to claim 120, wherein said at least one detent has a retaining surface that is opposed to a bottom wall located between said side walls, portions of said side walls located between said bottom wall and said retaining surface being spaced apart by a first predetermined distance, said retaining surface being spaced from said bottom wall by a second predetermined distance, said first predetermined distance being greater than said second predetermined distance.

132. A monitoring device according to claim 118, wherein
said projection is located on a bottom wall between said side walls.